(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 28 July 2005 (28.07.2005)

PCT

(10) International Publication Number WO 2005/067887 A3

(51) International Patent Classification⁷: A61K 9/20, 31/401, 31/403, 31/549

(21) International Application Number:

PCT/IS2005/000008

(22) International Filing Date: 23 March 2005 (23.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

7196 24 March 2004 (24.03.2004) IS 7772 23 March 2005 (23.03.2005) IS

- (71) Applicant (for all designated States except US): ACTAVIS GROUP [IS/IS]; Reykjavikurvegur 76-78, IS-222 Hafnarfjordur (IS).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): REYNIR, Eyjolfsson [IS/IS]; Eyrarholt 6, IS-220 Hafnarfjordur (IS).
- (74) Agent: A & P ARNASON; Efstaleiti 5, 103 Reykjavik (IS).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- upon request of the applicant, before the expiration of the time limit referred to in Article 21(2)(a)
- (88) Date of publication of the international search report:

 3 November 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: FORMULATIONS OF RAMIPRIL

(57) Abstract: The present invention relates to stable tablet formulations of ramipril, optionally in combination with a diuretic.

International Application No

T/IS2005/00008

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K9/20 A61K31/401 A61K31/403 A61K31/549

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/075842 A (TEVA) 18 September 2003 (2003-09-18)	1,2,6,7
÷ '	claims examples	
X 	US 2003/215526 A1 (S. STOFIK ET AL.) 20 November 2003 (2003-11-20) cited in the application claims examples paragraphs '0025!, '0026!, '0029! - '0032!	1,2,6,7
	*	
	·X·	

χ Patent family members are listed in annex.
 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of mailing of the international search report $16/09/2005$
Authorized officer
Scarponi, U

International Application No
T/IS2005/00008

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/028707 A (B.C. SHERMAN) 10 April 2003 (2003-04-10) cited in the application claims page 3, line 21 - line 29 page 4, line 21 - line 28 page 5, line 5 - line 18 examples	1-11
Y	WO 03/059388 A (DELTA HE) 24 July 2003 (2003-07-24) claims examples	1-11
Υ	WO 03/063834 A (PACIFIC CORPORATION) 7 August 2003 (2003-08-07) claims examples	1-11
Y .	EP 0 215 357 A (HOECHST) 25 March 1987 (1987-03-25) cited in the application claims examples	1-11
Y	US 5 151 433 A (W. FUELBRETH ET AL) 29 September 1992 (1992-09-29) cited in the application claims examples	1-11
Υ	WO 93/17685 A (MERCK) 16 September 1993 (1993-09-16) cited in the application claims examples	1-11
Υ	US 4 743 450 A (M. HARRIS ET AL.) 10 May 1988 (1988-05-10) cited in the application claims examples column 2, line 65 column 3, line 23 - column 4, line 43	1-11
P,X	WO 2005/007130 A (NOVARTIS) 27 January 2005 (2005-01-27) claims examples	1-11

Information on patent family members

International Application No

T/IS2005/00008

Cl	Patent document ted in search report		Publication date		·Patent family member(s)	Publication date	
	03075842	A	18-09-2003	AU WO	2003217916 A1 03075842 A2	22-09-2003 18-09-2003	
-	JS 2003215526	A1	20-11-2003	NONE			
h	JO 03028707	A	10-04-2003	CA AT WO DE EP US	2357982 A1 299697 T 03028707 A1 60205125 D1 1429748 A1 2005169981 A1	28-03-2003 15-08-2005 10-04-2003 25-08-2005 23-06-2004 04-08-2005	
, v	NO 03059388	A	24-07-2003	AU EP WO US	2003235579 A1 1513555 A1 03059388 A1 2005118259 A1	30-07-2003 16-03-2005 24-07-2003 02-06-2005	
V	NO 03063834	A	07-08-2003	CA CN EP WO KR US	2472237 A1 1625390 A 1469834 A1 03063834 A1 2003066351 A 2003180362 A1	07-08-2003 08-06-2005 27-10-2004 07-08-2003 09-08-2003 25-09-2003	
	EP 0215357	Α	25-03-1987	DE AU AU CA DE DE DE DE ES FI GR U JP JP KR NO NZ PH US A	3532036 A1 75610 T 597270 B2 6243186 A 1340722 C 3685177 D1 3685177 T 427886 A 0215357 A2 2001940 A6 863594 A 862285 A1 41640 A2 59308 B1 79965 A 2098628 C 8009549 B 62061928 A 9410032 B1 863583 A 217489 A 23716 A 83322 A 5256687 A 8606810 A	26-03-1987 15-05-1992 31-05-1990 12-03-1987 07-09-1999 11-06-1992 11-06-1992 10-03-1987 25-03-1987 01-07-1988 10-03-1987 12-01-1987 28-05-1987 09-02-1994 31-08-1990 02-10-1996 31-01-1996 18-03-1987 21-10-1994 10-03-1987 26-07-1990 27-09-1989 08 08 09-04-1987	
	US 5151433	A	29-09-1992	DE AT AU CA CN DE DK EP	3739690 A1 74513 T 2581888 A 1338344 C 1042917 A 3869919 D1 653688 A 0317878 A1	08-06-1989 15-04-1992 25-05-1989 21-05-1996 ,C 13-06-1990 14-05-1992 25-05-1989 31-05-1989	

Information on patent family members

International Application No

T/IS2005/00008

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 5151433	A	ES FI GR HU IE JP JP KR NO NZ PH PT US ZA	2033400 T3 885398 A ,B, 3004925 T3 48455 A2 61173 B1 1165596 A 2049604 C 7068140 B 9704908 B1 885213 A ,B, 227032 A 27416 A 89061 A ,B 5442008 A 8808734 A	16-03-1993 25-05-1989 28-04-1993 28-06-1989 05-10-1994 29-06-1989 10-05-1996 26-07-1995 08-04-1997 25-05-1989 28-05-1991 21-06-1993 01-12-1988 15-08-1995 26-07-1989
WO 9317685	A 16-09-1993	AU AU CA DE DK EP ES JP NO NZ WO US ZA	686097 B2 3736093 A 2130577 A1 9321579 U1 9200258 U4 0643580 A1 2083931 T1 7504659 T 943353 A 249773 A 9317685 A1 5686451 A 9301714 A	05-02-1998 05-10-1993 16-09-1993 15-06-2000 23-07-1993 22-03-1995 01-05-1996 25-05-1995 09-09-1994 26-01-1996 16-09-1993 11-11-1997 30-09-1993
US 4743450	A 10-05-1988	AT AU CA DE DK EP HK IE JP JP NZ PH ZA	84210 T 597471 B2 1130588 A 1300510 C 3877226 D1 3877226 T2 94088 A 0280999 A2 59496 A 60931 B1 2619904 B2 63225322 A 223407 A 26279 A 8800382 A	15-01-1993 31-05-1990 25-08-1988 12-05-1992 18-02-1993 29-04-1993 25-08-1988 07-09-1988 12-04-1996 07-09-1994 11-06-1997 20-09-1988 29-08-1989 10-04-1992 27-09-1989
WO 2005007130	A 27-01-2005	US WO US	2005009806 A1 2005007130 A1 2005142196 A1	13-01-2005 27-01-2005 30-06-2005